

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (original) A storage system for handling input/output (I/O) requests from a plurality of processors, comprising:

a storage media including a plurality of disk units;

a first interface adaptor to be coupled to a first processor of the processor;

and

a second interface adaptor to be coupled to a second processor of the processor,

wherein the first interface adaptor is configured to receive a first block I/O request from the first processor, and

determine a first logical volume to be accessed by the first processor based on the first block I/O request, the first logical volume being mapped to a first portion of the storage media,

wherein the second interface adaptor is configured to receive a file I/O request from the second processor, and

convert the file I/O request to a second block I/O request.

2. (original) The storage system of claim 1, wherein the second interface adaptor is configured to determine a second logical volume to be accessed

by the second processor based on the second block I/O request, the second logical volume being mapped to a second portion of the storage media.

3. (original) The storage system of claim 1, wherein the first block I/O request includes a logical unit number, and wherein the first logical volume is determined based on the logical unit number.

4. (original) The storage system of claim 2, wherein the file I/O request includes information specifying a file to be accessed by the second processor, and wherein the second logical volume is determined based on the information.

5. (original) The storage system of claim 1, wherein the first block I/O request conforms to Small Computer Standard Interface (SCSI) protocol.

6. (original) The storage system of claim 1, wherein the file I/O request conforms to either Network File System (NFS) protocol, Common Internet File System (CIFS) or HyperText Transport Protocol.

7. (original) In a storage system with a storage media including a plurality of disk units, a method for handling input/output (I/O) requests from a plurality of processors, comprising:

when receiving a block I/O request from a first processor of the processors;
determining a first logical volume to be accessed by the first processor based on the first block I/O request, the first logical volume being mapped to a first portion of the storage media,
when receiving a file I/O request from a second processor of the processors;
converting the file I/O request to a second block I/O.

8. (original) The method of claim 7, further comprising the step of:
determining a second logical volume to be accessed by the second processor based on the second block I/O request,
wherein the second logical volume is mapped to a second portion of the storage media.

9. (original) The method of claim 7, wherein the first block I/O request includes a logical unit number, and
wherein the first logical volume is determined based on the logical unit number.

10. (original) The method of claim 8, wherein the file I/O request includes information specifying a file to be accessed by the second processor, and
wherein the second logical volume is determined based on the information.

11. (original) The method of claim 7, wherein the first block I/O request

conforms to Small Computer Standard Interface (SCSI) protocol.

12. (original) The method of claim 7, wherein the file I/O request conforms to either Network File System (NFS) protocol, Common Internet File System (CIFS) or HperText Transport Protocol.

13. (new) A method in a storage system, to be coupled to a storage media including a plurality of disk units, for handling input/output requests from a plurality of processors, wherein a first processor of said processors sends block I/O requests and a second processor of said processors sends file I/O requests, said method comprising:

receiving block I/O requests from said first processor in a first interface;

accessing a first portion of said storage media based on the block I/O requests;

receiving file I/O requests from said second processor in a second interface;

and

accessing a second portion of said storage media based on the file I/O requests,

wherein storing data in response to said block I/O requests and said file I/O requests in a cache memory, coupled to said first and second interface.

14. (new) A storage system for handling input/output (I/O) requests from a plurality of processors, wherein a first processor of the processors sends block I/O

requests and a second processor of said processors sends file I/O requests, said storage system comprising:

- a storage media including a plurality of disk units;

- a bus coupled to said storage media;

- a cache memory, coupled to said bus, storing data in response to said block I/O requests and said file I/O requests; and

- a plurality of interfaces, coupled to said cache memory, to be coupled to said first and second processors,

- wherein a first interface of said interfaces, coupled to said first processor, receives block I/O requests from said first processor to access a first portion of said storage media,

- wherein a second interface of said interfaces, coupled to said second processor, receives file I/O requests to access a second portion of said storage media, and

- wherein a physical storage corresponding to said first portion of said storage media can be reallocated as a physical storage corresponding to said second portion of said storage media.